HISTORICAL Site Number: 18AN4  Brief Paleoir	Other name(s) T.D. Jones Field S West, Redian - Late Woodland multi-component base camp, lithentury scatter  Maryland Archeological Research Unit No. 7  Physiographic province Western Shore Coastal Ethnobotany profile available Maritime site  Topography Floodplain High terrace Private	Acitten Branch West, 18AN23B  Historic   Unknown  SCS soil & sediment code  Terrestrial site  Nearest Surface Water  Name (if any)  Saltwater  Freshwater
-Lat/Long accurate to within 1 sq. mile, user may need to make slight adjustments in mapping to account for sites near state/county lines or stream	Hilltop/bluff  Rockshelter/ cave  State of MD  Regional/ county/city  Unknown	Ocean Stream/river  Estuary/tidal river Swamp  Tidewater/marsh Lake or pond  Spring  Minimum distance to water is 30 m
Temporal & Ethnic Contextual Data:  Paleoindian site	Contact period site	Native American African American Unknown Anglo-American Hispanic  Asian American Unknown Y Other
Unknown prehistoric context  Site Function Contextual Data:	Historic Furnace/forge	Y=Confirmed, P=Possible  Military Post-in-ground
Prehistoric         Multi-component       ✓ Misc. ceremonial         Village       Rock art         Hamlet       Shell midden         Base camp       ✓ STU/lithic scatter         Rockshelter/cave       Quarry/extraction         Earthen mound       Fish weir         Cairn       Production area         Burial area       Unknown         Other context       ✓	Urban/Rural?       Rural       Other       □         Domestic       Transportation       □         Homestead       Canal-related       □         Farmstead       Road/railroad       □         Mansion       Wharf/landing       □         Plantation       Maritime-related       □         Row/townhome       Bridge       □         Cellar       Ford       □         Privy       Educational       □         Industrial       Commercial       □         Mining-related       □       Trading post       □         Mill       □       Tavern/inn       □         Black/metalsmith       □       □       □	Battlefield Frame-built Fortification Masonry Dencampment Other structure Masonry Dencampment Other structure Masonry Dencampment Other structure Dencampment Dencampment Masonry Dencampment Dencampm
Interpretive Sampling Data:  Prehistoric context samples  Flotation samples taken Y  Other samples		Goil damples taken

Site Name:   Populario   Prehistoric   Properties   Prehistoric   Prehis		hase II and P	hase III A	rcheological	Database and I	nventory	
Prehistoric Sherd Types   Shepard   Keyser   Coulbourn   Minguannan   Monongaheia   Strik (notch)   Piscataway   14   Kirk (sterm)   1   Calvert   Calvert   Monorw   Minguannan   Monongaheia   Strik (notch)   Piscataway   14   Kirk (sterm)   1   Calvert   Monorw   Minguannan   Monongaheia   Strik (notch)   Piscataway   14   Kirk (sterm)   1   Calvert   Monorw   Minguannan   Monongaheia   Strik (notch)   Piscataway   14   Kirk (sterm)   1   Calvert   Monorw   Minguannan   Monongaheia   Strik (notch)   Piscataway   14   Kirk (sterm)   1   Calvert   Monorw   Minguannan   Monongaheia   Strik (notch)   Piscataway   14   Wolfe Neck   Clemson Island   Moyaone   Wolfe Neck   Clemson Island   Moyaone   Wolfe Neck   Clemson Island   Moyaone   Motingham   Monorw Mind   Jacks Rf (notch)   Jacks Rf (sent)   Brewarton   19   Madison/Potomac   Strik (notch)   Mottred   Mottred   Whiteware   Berg Dry-bodie   Notth Devon   Porcelain   Rheniah   Creamware   Mottred   Whiteware   Mottred   Whiteware   Mottred   Mottred   Whiteware   Mottred   Mott	HISTORICAL Site	Number: 18AN489	Site Name:	Higgins		Prehistoric 🗸	
Prehistoric Artifacts   President   Prehistoric Features   Prehis			Other name(s)	T.D. Jones Field S West	t, Kitten Branch West, 18AN23B	Historic 🗸	
Diagnostic Artifact Data:		Paleoindian -	Late Woodland mult	ti-component base camp,	lithic workshop; Mid 19th -Early	Unknown	
Projectile Point Types		20th contunt o	catter				
Projectile Point Types	<u> 1 K O S 1</u>	ļ					
Clowis   3   Perkiomen   Susquehana   Accokeek   12   Mockley   Shenks Ferry	Diagnostic Artifact Da	ta:	Prehistoric Sher	d Types	Shepard	Keyser	
Selden Island	Projectile Point Types	Koens-Crispin 3	Marcey Creek	28 Popes Creek	Townsend	Yeocomico	
Palmer   Vernon   7   Accokeek   12   Mockley   Shenks Ferry   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Neck   Clemson Island   Moyaone   Vinette   Page   Potomac Cr   Wolfe Island   English Brown   Astronomac   Page Dry Dodde   Bordeware   Nothingham   Renish   Whiteware   Nothingham   Renish   Whiteware   Nothingham   Renish   Witslengham   Porcelain   Renish   Witslengham   Porcelain   Renish   Witslengham   Porcelain   Perplayed   Whiteware   Porcelain   Perplayed   Porcelain   Portelain   Postaled   Chert   Vinette   Vin	Clovis 3	Perkiomen	Dames Qtr	Coulbourn	Minguannan	Monongahela	
Wolfe Neck   Clemson Island   Moyaone   Wolfe Neck   Wolfe Nec	Hardaway-Dalton	Susquehana	Selden Island	Watson	Sullivan Cove	Susquehannock	
Vinette	Palmer	Vernon 7	Accokeek	12 Mockley	Shenks Ferry		
Le Croy	Kirk (notch)	Piscataway 14	Wolfe Neck	Clemson Island	Moyaone		
Barthenware   Jacks Rf (notch)   Guilford   Jacks Rf (notch)   Guilford   Jacks Rf (pent)   Brewerton   19 Madison/Potemac   2 Otter Creek   27 Levanna   Misc. Rf (pent)   Bordenware   Buckley   Pearlware   North Devon   Porcelain   Rhenish   Rhenish   Rhenish   Pearlware   Pearlware   Pearlware   Pearlware   Porcelain   Rhenish   R	Kirk (stem)	Calvert	Vinette	Page	Potomac Cr		
Guilford Brewerton 19 Madison/Potomac 2 Otter Creek 27 Levanna	Le Croy 6	Selby Bay	Historic Sherd T	ypes Ironstone	Staffordshire	Stoneware	
Brewerton   19	Morrow Mntn	Jacks Rf (notch)	li i	Jackfield	Tin Glazed	English Brown	
Diter Creek   19	Guilford	Jacks Rf (pent)	1 1	Mn Mottled	Whiteware	Eng Dry-bodie	
All quantities exact or estimated minimal counts  Other Artifact & Feature Types:  Prehistoric Artifacts Other fired clay Flaked stone Ground stone Stone bowls Unmod faunal Floral material Ceramics (all) Floral material Froundation Froundation Froundation Froundation Froundation Froundation Froundation Froundation Floral material Froundation Froundation Froundation Froundation Froundation Froundation Froundation Floral material Froundation Fr	Brewerton 19	Madison/Potomac 2	1	North Devon	Porcelain	Nottingham	
Other Artifact & Feature Types:    Prehistoric Artifacts	Otter Creek 27	Levanna	· '	Pearlware	Forceiain	Rhenish	
Prehistoric Artifacts Other fired clay Flaked stone    52400	All quantities exact or estim	nated minimal counts	Creamware	,-		Wt Salt-glazed	
Prehistoric Artifacts	Other Artifact & Featur	re Types:	Prehistoric Featu	res	Lithic Material Fer quartrit	e  Sil sandstone	
Flaked stone	Prehistoric Artifacts	Other fired clay	Mound(s)	Storage/trash pit			
Ground stone	Flaked stone 52400	Human remain(s)	Midden				
Stone bowls Unmod faunal Postholes/molds Unknown Quartz V Steatite Other V Quartzite Sandstone V Immonite, amphi  Fire-cracked rock 3472 Oyster shell V House pattern(s) Other Quartzite V Sandstone V Immonite, amphi  Palisade(s) Palisade(s) Dated features present at site  Numerous prehistoric features dated based on the presence of diagnostics within the feature deposits.  Historic Artifacts Tobacco related Historic Features Privy/outhouse Depression/mound Unknown Calls Well/cistern Burial(s) Other Foundation Trash pit/dump Railroad bed Call Trash pit/dump Railroad bed Call Trash pit/dump Railroad bed Call Trash pit/dump Railroad bed Planting feature Mill raceway Postholes/molds Road/walkway Wheel pit Paling ditch/fence All quantities exact or estimated minimal counts  Radiocarbon Data:  Sample 1: +/- years BP Reliability Sample 5: +/- years BP Reliability Sample 6: +/- years BP Reliability	Ground stone 29	Modified faunal	Shell midden	☐ Ossuary ☐		_	
Fire-cracked rock 3472 Oyster shell	Stone bowls	Unmod faunal	Postholes/molds	☐ Unknown ☐	II		
Other lithics (all) 3271 Floral material	Fire-cracked rock 3472	Oyster shell	House pattern(s)	Other			
Ceramics (all) 42 Uncommon Obj. Hearth(s) Itihic reduc area  Uncommon Obj. Lithic reduc area  Uncommon Obj. Hearth(s) Itihic reduc area  Uncommon Obj. Hearth(s) Itihic reduc area  Uncommon Obj. Lithic reduc area  Uncommon Obj. Hearth(s) Itihic reduc area  Uncommon Obj. Numerous prehistoric features dated based on the presence of diagnostics within the feature deposits.  Historic Artifacts  Tobacco related Historic Features Privy/outhouse Depression/mound Unknown Const feature Well/cistern Burial(s) Other Const feature Seature Poundation Trash pit/dump Railroad bed Cellar hole/cellar Sheet midden Earthworks Hearth/chimney Planting feature Mill raceway Postholes/molds Road/walkway Wheel pit Postholes/molds Road/walkway Wheel pit Paling ditch/fence All quantities exact or estimated minimal counts  Radiocarbon Data:  Sample 1:	Other lithics (all) 3271		Palisade(s)				
Rimsherds 8 Other Lithic reduc area  Privy/outhouse Depression/mound Unknown Depression/mound Un	Ceramics (all) 42		Hearth(s)	<u> </u>			
Pottery (all)	Rimsherds 8	Other	Lithic reduc area	_			
Pottery (all)	Historic Artifacts	Tobacco related	Historic Features	<u> </u>	J		
Glass (all)	Pottery (all)		Const feature				
Architectural Faunal material Cellar hole/cellar Sheet midden Earthworks Hearth/chimney Planting feature Mill raceway Postholes/molds Road/walkway Wheel pit Paling ditch/fence All quantities exact or estimated minimal counts  Radiocarbon Data:  Sample 1: +/- years BP Reliability Sample 2: +/- years BP Reliability Sample 6: +/- years BP Reliability  Railroad bed Sample Gallroad bed Cellar hole/cellar Sheet midden Earthworks Mill raceway Planting feature Mill raceway Postholes/molds Road/walkway Wheel pit All quantities exact or estimated minimal counts  Radiocarbon Data:  Sample 1: +/- years BP Reliability Sample 2: +/- years BP Reliability Sample 6: +/- years BP Reliability		, , ,		☐ Well/cistern	Burial(s)	Other	
Furniture	Architectural	Faunal material		Trash pit/dump	Railroad bed		
Arms Floral material   Hearth/chimney   Planting feature   Mill raceway   Postholes/molds   Road/walkway   Wheel pit   Paling ditch/fence   All quantities exact or estimated minimal counts    Radiocarbon Data:	Furniture	Misc. kitchen	Cellar hole/cellar	Sheet midden	Earthworks		
Clothing Misc.  Personal items  Other Coal, slag  Postholes/molds Road/walkway Wheel pit  Paling ditch/fence MI quantities exact or estimated minimal counts  Radiocarbon Data:  Sample 1: +/- years BP Reliability Sample 2: +/- years BP Reliability Sample 3: +/- years BP Reliability  Sample 4: +/- years BP Reliability Sample 5: +/- years BP Reliability Sample 6: +/- years BP Reliability	Arms	Floral material	Hearth/chimney	Planting feature	Mill raceway		
Personal items  Other Coal, slag  Paling ditch/fence  All quantities exact or estimated minimal counts  Radiocarbon Data:  Sample 1:	Clothing	Misc.	Postholes/molds	Dood/walkway	□ Whool pit □		
Radiocarbon Data: Sample 1:	Personal items	Other coal, slag	Paling ditch/fence	•		mated minimal counts	
Sample 1:							
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Sample 7:   +/-   years BP Reliability Sample 8: +/-   years BP Reliability Sample 9: +/-   years BP Reliability	Sample 4:   +/-	_				years BP Reliability	
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## Phase II and Phase III Archeological Database and Inventory MARYLAND HISTORICAL Site Number: 18AN489 Site Name: Higgins Prehistoric 🗸 Other name(s) T.D. Jones Field S West, Kitten Branch West, 18AN23B Historic 🗸 Unknown 🗌 Paleoindian - Late Woodland multi-component base camp, lithic workshop; Mid 19th -Early **Brief** 20th century scatter **Description:** Collection curated at **External Samples/Data:** Additional raw data may be available online

## **Summary Description:**

The Higgins Site or 18AN489, also known as Jones Field S West, the Sink, or Kitten Branch West (18AN23B), is a buried, multi-component prehistoric site located near the Baltimore-Washington International (BWI) Airport in northwestern Anne Arundel County, Maryland. Represented at the site, are a series of base camps and lithic workshops dating from the PaleoIndian period, right up to the Late Woodland. The site is situated on an upland promontory extending northwestward between two small drainages that have their confluence approximately .45 km northwest of the site in a swampy lowland. Both ultimately drain into the Patapsco River and the Chesapeake Bay. In modern times, the Higgins site and much of its surrounding area has been wooded, with Virginia pine, oak, sassafras, and beech being the dominant tree species. The understory is relatively limited and includes greenbriers, brambles, grape, and poison ivy. These vegetation regimes, and the associated fauna are likely very different from what would have been present before European contact. Furthermore, given the 9,000 year or more occupation of 18AN489, it should be expected that the site has seen considerable change in its environmental setting over time. Soils at the site are largely well-drained, moderately eroded, and gently sloping Rumford loamy sands and Bibb soils.

The Higgins site area has been known to local collectors since at least the end of the 19th century. Aside from clearing and farming of the relatively level ridgetop from the early 19th century through the mid 1930s, the area remained undeveloped and essentially undisturbed until the late 1970s. These early collection activities are poorly documented and it is frequently difficult to determine if a specific collector was active at the site, or just in the general vicinity.

One of the better documented collections is that of Talbot Dickson (T.D.) Jones who was active in the general area around the turn of the 20th century. Jones referred to Higgins and the area around it as "Field S" or "The Sink". The latter name likely comes from a slight depression in the southern portion of the site where subsequent work has revealed a concentration of plowzone artifacts to be present. Jones' notes reveal the names of two other collectors of Field "S" (Messrs. Francis and Hancock), however nothing is known of these gentlemen nor of the whereabouts of their artifacts. In later years, a tenant farmer named Jenkins or Jackson discouraged collection on the property, thereby preserving much of the site.

The portion of the TD Jones collection from Field S that is still extant included 2 Marcey Creek sherds, 1 mano, 3 early stage bifaces, 2 drills, and 47 projectile points. Diagnostic points from the collection include 1 LeCroy, 1 Poplar Island, 2 Lamoka-like points, 4 Normanskill points, 2 Otter Creeks, a Matanzas-like point, 4 Brewerton side-notched points, 2 possible Genesees, 3 Bare Islands, 2 Clagett-like points, 3 possible Snook Kill points, 3 possible Koens-Crispin points, 2 Dry Brook Fishtails, a Hellgrammite point, a Vestal Notched point, a Wading River point, 5 Piscataways, 2 Vernons, and 2 Madison/Potomac points. It is uncertain how representative the collection of Field S is for the site area. Jones reported collecting almost 100 'arrowheads' from Field S on a single day in May 1899. The available specimens are all whole or nearly whole, implying culling of the collection at some later date. Again, other collectors are known to have been active in the area during the period of cultivation from the late 19th century to the mid 1930s and collections exist, but the documentation is not such that specific artifact can reliably be tied to 18AN489 as opposed to other nearby sites.

Two amateur archeologists, Edward Higgins of Linthicum and Paul Seman of Kent Island, amassed collections from the site in the 1950s and 1960s. The Higgins collection from 18AN489 included 15 diagnostic projectile points, 1 un-typed projectile point, numerous biface fragments, a full-grooved stone axe poll, and a ground stone axe bit. Although never formally tallied and analyzed, the debitage consisted almost entirely of quartz flakes, with a few scattered rhyolite flakes. Decortication flakes with cobble cortex were common. Diagnostic points include a St. Albans side-notched point, 2 Breweton eared-notched points, 1 Brewerton side-notched point, 4 Bare Islands, 2 Wading River points, a Poplar Island, 1 Piscataway point, 1 Vernon point, a Lehigh broadspear, and an Orient Fishtail point. It should be noted that there is some overlap between materials from 18AN489 and nearby site 18AN622 in the Higgins collection, but for the most part these materials are believed to have come from the former rather than the latter. The Seman collection has never been professionally examined.

The first professional examination of the Higgins site occurred in 1978 when researchers from the Maryland Geological Survey's Division of Archeology investigated the (then) proposed location of a rapid rail station and associated parking and access facilities which would serve the nearby BWI airport. The survey was conducted to determine the location of any archeological sites within the impact area of the project in conformance with state and federal legislation.

The Higgins site was wooded at the time of the 1978 survey and adequate surface visibility was present only along an extant fire road. Examination of the road yielded two quartz projectile point fragments, 3 biface fragments, 2 chert flakes, approximately 150 quartz flakes, and the poll of a full-grooved axe. In addition to surface reconnaissance, 43 shovel test pits (STPs) were excavated along the proposed rail station access road, along the crest of the ridge, in a line trending southeast toward one of the aforementioned drainages, and in the proposed station and parking lot locations. These STPs were generally spaced at 30.48-45.72 m (100-150 ft) intervals, but spacing varied considerably due to field conditions. Shovel tests yielded 2 quartz bifaces, 1 "worked quartz" artifact, 105 pieces of quartz debitage, and 10 pieces of fire-cracked rock. Of these 128 artifacts, 32 were found below the base of the plowzone, indicating that intact subplowzone deposits might exist. In one STP, fire-cracked rock was found to a depth of 76 cm. Diagnostic artifacts from the site included a single Bare Island and a Lamoka-like point.

While the Division of Archeology 1978 surface is clearly biased by collection of the same are often reconnoitered by Edward Higgins, the subsurface survey provided a more controlled artifact sample. The predominance of quartz is overwhelming, constituting 100% of the subsurface collection of flaked stone, and 99% of the observed surface material. This survey produced the only known chert debitage from the site at that time, while rhyolite artifacts were conspicuously absent.

As a result of the Phase I survey, the site was determined to be potentially significant and design changes were made to the rail station and parking lot layouts so that only the periphery of the site was impacted. The project was, thus, permitted to proceed without further investigation. Only an access road to the parking lot was constructed through the eastern site margin.

Division of Archeology personnel returned to the site on several occasions in 1979 and 1980 for brief field visits. Three additional diagnostic points were collected. These included a Brewerton Eared-notched point, a Brewerton Side-notched point, and a Normanskill point, all manufactured from quartz.

The next stage of professional archeological fieldwork at Higgins, came in 1987. This fieldwork was the consequence of the (then) proposed construction of a headquarters building for the State Railroad Administration within the site boundaries. Due to federal and state legislation mandating consideration for

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archeological resources when funding construction with public monies, the Division of Archeology of the Maryland Geological Survey conducted Phase II testing in 1987 and 1988 to more precisely determine site boundaries, and the integrity and nature of the deposits. These investigations revealed the presence of highly significant, horizontally stratified, intact, subplowzone deposits dating to the Archaic period, warranting Phase III-level investigation. The Phase III work was carried out by the Division of Archeology later in 1988 and description of both the Phase II and Phase III projects follow.

The 1987 Phase II test excavations at Higgins were designed to provide basic data about the vertical and horizontal extent of the site, and the nature and integrity of deposits. Thus, the work entailed the excavation of both systematically placed shovel test pits and the excavation of 24 square meters in formal test units.

Phase II testing began with the establishment of a grid system over the wooded ridgetop area west of rail station access road. Wooden stakes were set in every 60 meters, with pin flags placed at intervening 15 meter intervals. One hundred ninety-four grid points marking shovel test locations were ultimately set in on areas of low to moderate slope. No grid points were marked on steep slopes descending to the local drainages. STP excavation were centered on pin flag markers, but offset to one side on wooden stake markers. Stakes were left in place in anticipation of subsequent work.

Shovel tests measured 50 cm in diameter and were stratigraphically excavated into sterile subsoil. With the exception of a few STPs located in a graded fire road at the northern ridge terminus, shovel tests penetrated at least 50 cm below the surface, some extending as deep as 120 cm. All soil was screened through hardware cloth and artifact provenience was maintained for each natural layer encountered. STP profiles and appropriate soil and artifact data were recorded on standardized forms. A total of 176 shovel test pits were excavated.

Shovel test pit results indicate that the Higgins sit occupies virtually all of the remaining intact ridgetop west of the rail station access road. Although artifact density generally dropped off towards the road, one shovel test located on the berm of the access road contained significant quantities of quartz debitage in intact soil, underlying 20 cm of fill from road construction. The state road appears to have impinged on the site in this area, and additional artifactual remains are likely to be east of the road as well.

Placement of formal test units was based on the distribution and density of prehistoric artifacts found below the plowzone in the shovel test pits. A secondary factor in test unit placement was the presence of soil anomalies noted during shovel testing. Test units were both 1 X 2m and 2 X 2 m in size. Again, a total area of 24 m2 was excavated during Phase II work in 7 test units of the aforementioned sizes.

Test units were excavated in 5 cm arbitrary levels within natural stratigraphic layers. Five cm levels were used rather than the more standard 10 cm arbitrary level in an attempt to pick up any fine stratification of cultural deposits which might be present in the otherwise uniform sand. All observed tools, cores, and fire-cracked rock were left in place, pedestalled, and piece plotted. An attempt was made to piece-plot all debitage as well, however, this proved impractical due to soil conditions. The saturated (and later frozen) soil, combined with the translucency of much of the quartz debitage, making the in situ detection of flakes extremely difficult. As a result, the mapped debitage was heavily biased towards larger flakes and chunks. Most of the debitage was found in the screens. All soil, including the plowzone, was screened through hardware cloth. In addition, a two-gallon soil sample was taken from the southwest quadrant of every level in each excavation unit for flotation to capture both organic matter and a sample of small lithic artifacts that would normally fall through the screens.

In general, excavation of the seven test units clearly demonstrated the presence of intact cultural deposits. Despite the presence of intact remains from three temporally distinct prehistoric components, there was little evidence of vertical stratigraphy encountered at this stage. Only one unit (in the southeast portion of the site) produced potentially stratified deposits, with two scatters of fire-cracked rock found superimposed in different levels. The limited exposure was insufficient to verify the apparent stratification in the subsoil. Diagnostic artifacts were not recovered from this unit, and debitage showed a continuous decrease in quantity from higher to lower levels.

The data from private surface collections combined with the controlled testing provides some indication that intact vertical stratigraphy did exist on the site prior to plowing in historic times. Both the Jones and Higgins surface collections consist largely of projectile points dating to the Late Archaic-Early Woodland subperiods. Although the sample of clearly diagnostic projectile points recovered from Phase II investigations is small, it tends to suggest that Woodland and Late Archaic artifacts are found in the disturbed upper layers, while Middle Archaic and Early Archaic deposits remained undisturbed. Some Late Archaic remains are also found in intact contexts.

The prehistoric features uncovered during Phase II tests excavations (deposits of fire-cracked rock, a concentration of limonite, and a possible Late Archaic living floor) were well defined and showed little evidence of disturbance. Several cases of small-scale movement of artifacts were encountered. Artifacts were found in upright positions in the subsoil in several instances, indicating some vertical movement from their original positions. Bioturbation is undoubtedly responsible for some of this movement given the wooded condition of the site. Although test units were placed to avoid large trees, those roots encountered tended to be densest in the plowzone and usually spread horizontally along the plowzone/subsoil interface.

Sub-freezing temperatures during test excavations provided a clear demonstration of potential artifact movement due to freeze/thaw cycles. Needle ice, crystallizing in the sandy, saturated soils, elevated exposed artifacts almost 2 cm above their pedestals after overnight freezing. This effect is undoubtedly muted for buried artifacts whose movement is restricted by overlying sediments. However, the potential vertical movement of individual artifacts through the soil by this process cannot be ignored. Furthermore, these deposits were, at one time, on the surface. This may be the major process by which artifacts were turned or dislodged from their original orientations in the subsoil.

Preservation of prehistoric organic remains was virtually nil due to the rapid leaching of the acid, sandy soils. Although charcoal flecks were occasionally observed in the subsoil, these were without reliable associations, were relatively solid, and appeared to be fresh. The origin of this charcoal was thought to be related to recent forest fires and natural carbonization of buried organic remains. No prehistoric bone was observed. All of the shell recovered was found in the plowzone and almost certainly represents historic fertilizer. Thus, no materials suitable for radiometric dating were recovered.

Phase II test excavations produced 8,135 prehistoric artifacts. The assemblage consisted of 36 projectile points, 1 hafted scraper, 3 other scrapers, 62 bifaces, 2 gravers, 4 retouched flakes, 2 other flaked tools, 93 cores, 136 chunks, 6,987 flakes, a groundstone axe, 3 other groundstone objects (incomplete), 33 hammerstones, 293 pieces of fire-cracked rock, and 479 other lithics (unmodified rock). Quartz debitage (including flakes, chunks, and cores) makes up the overwhelming majority of the assemblage. Temporally-diagnostic artifacts recovered include projectile points from several periods. The diagnostic projectile points include 1 LeCroy point, 2 Otter Creek points, 3 Bare Island points, a Lamoka point, 2 Wading River points, 2 Piscataway points, a rhyolite

# Phase II and Phase III Archeological Database and Inventory Site Number: 18AN489 Site Name: Higgins Prehistoric Other name(s) T.D. Jones Field S West, Kitten Branch West, 18AN23B Historic T.D. II. C. T. Description: Paleoindian - Late Woodland multi-component base camp, lithic workshop; Mid 19th -Early 20th century scatter

"spike" point, and at least three triangular points.

As a result of the Phase II testing, at least three intact prehistoric components were identified at the Higgins site. These were all of Archaic period temporal affiliation and included an Early Archaic LeCroy component in the northern section of the site, a Middle-Late Archaic Otter Creek component in the east-central portion of the site, and a Late Archaic Bare Island component in the easternmost unit at the site. Mixed Archaic remains were found in a unit just to the west of the LeCroy component. Limited evidence of a disturbed Woodland component came from both the plowzone of the southern-most unit and from shovel testing in the area surrounding it. Historic remains were generally confined to the disturbed upper layers and appear to be secondarily deposited. For this reason, they have not been included in the artifact tallies above.

As noted previously, the distribution of identifiable projectile point types strongly suggests horizontal separation of components (as opposed to stratified occupations), with potential to identify specific activity areas. Thus, while the Phase II testing indicated that vertical stratigraphy was apparently absent, the site clearly had intact deposits with probable horizontal integrity. Based on these findings, Phase III data recovery was recommended in areas of the site where construction impacts could not be avoided.

Near the close of Phase II testing, the size and location of the impact area for the construction and landscaping of the State Railroad Administration headquarters building were finalized. The project impact area incorporated some 8,362 m2. The Phase III investigations would ultimately entail the excavation of 221 m2, representing about 2.6% of the overall construction project area or about .78% of the total 7.5 acre site. Thus, Phase III work adequately sampled the area to be impacted by the construction of the new headquarters, but by no means did it obtain a representative sample of the site as a whole.

Phase III excavations at the Higgins site were designed to fill a gap in basic knowledge about the Archaic period in Maryland, and the Middle Atlantic region in general. Although sites of this time period are numerous, few are known to contain intact deposits, and fewer still have been excavated. Obtaining basic chronological data on different Archaic components and refinement of projectile point typology were important goals of the Phase III investigations. The location of the deeply-buried deposits on a ridgetop (where soils are usually found to be shallow) enhanced the possibility of gaining new information about site function and use of space in an environmental setting that is rarely amenable to testing. The presence of intact features potentially permitted the definition and reconstruction of temporally discrete activity areas, which could be functionally and technologically compared with other occupations found on the site and elsewhere in the region.

Prior to mitigation excavations, a detailed topographic map of the site was produced using a .25 m contour interval. Intersections on the 15 m interval grid established during the Phase II testing were employed to obtain systematically-placed elevations over the ridgetop. Historic features, such as a series of drainage ditches and the fire road that crosses the site, were also mapped. All Phase III excavations were oriented on the grid established during Phase II test excavations.

Phase III excavations were undertaken at the Higgins site in three separate blocks totaling 221 square meters. Block 1 along the fire road that runs north-south through the center of the site (the largest area with 151 square meters opened) was initiated between 2 Phase II shovel tests, which contained moderate densities of prehistoric artifacts in intact subsoil. Exploratory trenches were opened in all directions from the block. Based on the relative quantities of diagnostic and other artifacts, and the distribution of features and living floor areas, these exploratory trenches were expanded into smaller excavation area designated A, B, and C. Block 2 (to the west of Block 1) extended excavations around one of the Phase II test units which had produced a concentration of limonite and several clusters of fire-cracked rock. The LeCroy point also came from this unit, suggesting that very early deposits were centered in this area. This area was expanded to further investigate a possible Early Archaic "structure" remnant marked by a concentration of limonite slabs. Because it was outside the construction project area, excavations in Block 2 were limited to 18 square meters. Block 3 was excavated southeast of Block 1 in the area of a Phase II test unit that exposed a possible Otter Creek occupation living floor. Work was undertaken in all directions until artifact densities dropped off, thus defining the specific occupational area. It eventually encompassed 52 sq. meters.

Excavation blocks were dug in 1 X 1 m squares (test units). Humus and plowzone were generally removed as a single layer, although in several units these layers were excavated and screened separately. Once intact subsoil was exposed, each unit was sub-divided into 50 X 50 cm quadrants designated by their geographical coordinates, and excavated separately. Quadrants were excavated in 10 cm arbitrary levels within natural layers, and all fill was screened through hardware cloth. All units were excavated to the base of cultural deposits.

During Phase III excavations, all artifacts except flakes were pedestalled within the 10 cm level in which they were found. However, the provenience of debitage was maintained by quadrant and level only. Separate records were maintained for each level in each unit and standardized forms were used. All pedestalled artifacts were mapped and assigned consecutive field numbers, and were subsequently recorded as tracings on level forms.

Features were identified by the presence of clusters of artifacts, usually fire-cracked cobbles and small pieces of limonite. The leached, sandy, acidic soil prevented feature fill from being distinguished from the matrix by either changes in soil texture or color. It is important to note, therefore, that many prehistoric features lacking substantial artifact concentrations may not have been recorded because they were no longer detectable. Features were given unique number and excavated separately.

At least two representative series of profiles for each block excavation were recorded for north-south and east-west directions. In addition, at least one unit in each block was extended well below the culture-bearing strata to confirm the base of cultural deposits, obtain paleoenvironmental data, and gather geological information about site formation processes and the origin of the landform in which the site was located.

As was done during Phase II test excavations, two-gallon soil samples were systematically taken from the southwest quadrant of each level in intact subsoil in every 1 X 1 m unit. Over 1000 such samples were thus acquired. Soil samples were also taken from within features. Data from previous excavations indicated that the probability of recovering much prehistoric organic material was low, and the large samples were primarily collected to provide a sample of lithic debitage that normally would not be captured by a screening through hardware cloth.

Small soil samples were taken from each feature and from the pedestals of many tools and project points to be processed for pollen, phytoliths, and other micro residues. Columns of pollen samples were also collected from one wall of the deep excavation unit in each block to provide environmental data. Trowels cleaned with sterile water were used to collect the samples. Additional columns of soil samples were collected in 5 cm increments from one wall of the deep unit profile in each excavation block for geological analyses. These included analysis of grain size and shape, geochemistry, and mineralogy.

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Phase III excavations yielded much additional information about the range of prehistoric occupations at the Higgins Site, and the processes of site formation. Numerous intact remains from the Early, Middle, and Late Archaic subperiods were found as anticipated from the Phase II testing. Unexpected intact deposits were also uncovered relating to PaleoIndian and Early Woodland times. The PaleoIndian remains are particularly significant due to their rarity in an intact subsurface context. This component also constitutes the only unequivocal example of vertically-stratified remains in the excavated portion of the site.

Several occupations were isolated for study based on the horizontal placement of diagnostic artifacts. PaleoIndian remains were restricted to the central portion of Block 1C and are concentrated in the deeper levels. Early Archaic LeCroy deposits occur only in Block 2. Middle-Late Archaic Otter Creek and Brewerton remains are most numerous and were exposed in several areas of the site. These included the western portion of Block 1A, the northeastern portion of Block 1B, and the southern and central portions of Block 3. Late Archaic Bare Island remains were found in the upper levels of Block 1C, and in the extreme southern portion of Block 1A. Early Woodland Marcey Creek remains were confined to the central northern portions of Block 3. A probably unrelated Early Woodland Wading River component was identified over much of Black 1B.

In general, diagnostic artifact distributions and site structural data led to five conclusions regarding 18AN489. 1) The depositional characteristics of the site are complex, and are not reflected in the existing site surface topography, which has been homogenized by plowing. 2) Plowing has destroyed some pre-existing vertical stratigraphy to the extent that Woodland period artifacts are usually confined to the plowzone, while earlier deposits predominate in the intact subsoil. 3) Except in rare cases, apparently associated with extinct drainages, clear subplowzone vertical stratigraphy is absent on the site. 4) Except in these extinct drainage areas, subplowzone stratigraphy is compressed, especially for the Archaic period occupations. Tree root activity and needle ice formation are probably the most significant sources of disturbance to the site and have caused some vertical displacement of individual artifacts. Given the highly leached and uniform nature of the soil, only horizontal artifactual relationships can be considered to be significant over most of the site. 5) Deposits are likely to be more deeply buried as one approaches the adjoining drainages. Intact Woodland remains are likely to be present only in the eastern portions of the site. Woodland deposits are likely to be confined to the plowzone in the central and western portions of the site. In general, Archaic and PaleoIndian deposits can be expected to be largely intact over the entire site area, although Late and Terminal Archaic remains may sometimes by truncated.

Phase II and III excavations revealed 26 prehistoric features. Morphologically, these can be grouped into three types: 1) small, round to oval clusters of fire-cracked rock with minor quantities of limonite, that are 50 cm or less in diameter, 2) large, round concentrations of fire-cracked rock with minor quantities of limonite, that are between 70 to 100 cm in diameter and may be associated with dispersed fire-cracked rock, and 3) round limonite concentrations of small diameter.

All features lack visible charcoal, evidence of burned earth, textural evidence of pit excavation in the surrounding matrix, or evidence of pit containment in the arrangement of fire-cracked rock. Although this undoubtedly is in part the result of post-depositional leaching, charcoal collected from flotation feature fill was likewise sparse.

The function(s) of the small fire-cracked rock clusters is unclear, and could include small cooking hearths, smoke or steam-generating hearths, boiling-stone dumps or caches, sweat-lodge locations, or any other activity requiring a small, intense fire and/or heated rocks. The generation of archeological fire-cracked rock is a poorly studied phenomenon. Preliminary ethnographic review and replicative studies, however, have indicated that discard areas for worn-out boiling stone mimic features commonly ascribed to small round or oval "hearths", and that stone boiling (vs. steaming or roasting) creates the irregular, angular fracture patterns common to fire-cracked rock found on archeological sites. Larger, well-defined, packed concentrations of fire-cracked rock were hypothesized to represent boiling stones discarded, or possibly cached, in their original perishable container.

Fire-cracked rock features were common at the Abbott Farm site in New Jersey, and on Terminal Archaic and Early Woodland sites in the Upper Delaware Valley. Two "boiler" features were identified in Early Archaic (bifurcate) contexts at the nearby Indian Creek Site (18PR94), that are very similar to the 20 small clusters found at the Higgins site. These features were present in occupations of all of the subperiods at the Higgins site, except possibly the Late Archaic.

The two roughly circular concentrations of small limonite fragments resemble the large fire-cracked rock concentrations in form and could also represent hearth areas that simply made use of limonite rather than sandstone or quartzite cobbles. Alternatively, they could have a distinct function unrelated to fire-generating activities.

Prehistoric artifacts recovered during the Phase III investigations included 164 projectile points, 3 drills, 1 perforators, 351 other bifaces, 4 hafted scrapers, 15 other scrapers, 1 uniface, 2 choppers, 4 gravers, 518 cores or core fragments, 48 retouched flakes, 41,687 other flakes or flake fragments, 1,065 chunks, 5 pestles, 1 groundstone object of a geometric form, 15 unfinished or incomplete groundstone objects, 87 hammerstones, 5 abraders, 12 use-modified grinding stones, 3,073 pieces of fire-cracked rock, 2,645 other lithics (unmodified rock), 26 ceramic sherds, and 1 ceramic pipe fragment.

Diagnostic projectile points included 3 Clovis point fragments (representing 2 Clovis points), 1 Kirk point, 1 Kanawha stemmed point, 1 MacCorkle Stemmed point, 2 LeCroy points, 22 Otter Creek points, 7 Brewerton side-notched points, 3 Brewerton Eared-notched points, 1 Brewerton Corner-notched point, 3 Normanskill points, 14 Bare Island points or point fragments, 4 Vernon points, 3 Lamoka points, a Savannah River-like point, 3 Snook Kill points, 1 Dry Brook Fishtail, an Archaic or "Beekman" triangular point, 9 Wading River points, 6 Piscataway points, and 5 Late Woodland triangular points.

With the exception of two very small, eroded, non-diagnostic sherdlets, all of the ceramic sherds were Early Woodland Marcey Creek ware. Twenty-five of the sherds mended to form two large sections of the same Marcey Creek pot. At least 8 rim sherds are present.

Although several options were explored, no absolute dating techniques could be employed on the Higgins site. Organic preservation was virtually nil. However, the Phase III excavations yielded a wealth of palynological, micro-residue, geochemical, pedological, and sedimentological data. These auxiliary techniques provided both environmental and functional data related to particular artifacts, components, and time periods.

Geomorphological investigations indicated a primarily fluvial source, rather than an Aeolian origin, for the Higgins site sediments. The incorporation of archeological remains have helped to date various aspects of downcutting and deposition resulting in the present-day ridgetop, and have helped to clarify the Pleistocene and Holocene geomorphology of the Inner Coastal Plain in this region.

In total, 24 features and feature pedestals (many with associated diagnostic artifacts) were selected for pollen sampling. Underlying soils were also analyzed and pollen analysis was performed on residue derived from artifact washes. Phytolith analysis of samples from associated artifacts was also completed. The analysis of feature fill and artifact washes for pollen, phytolith and/or cross-polarization data from the Higgins Site was designed to provide subsistence

# Phase II and Phase III Archeological Database and Inventory Site Number: 18AN489 Site Name: Higgins Prehistoric Other name(s) T.D. Jones Field S West, Kitten Branch West, 18AN23B Historic T. D. I. C. T. Description: Paleoindian - Late Woodland multi-component base camp, lithic workshop; Mid 19th -Early Other name(s) Paleoindian - Late Woodland multi-component base camp, lithic workshop; Mid 19th -Early Other name(s) Paleoindian - Late Woodland multi-component base camp, lithic workshop; Mid 19th -Early

information for a period ranging from the PaleoIndian to the Woodland Period. In addition, three stratigraphic columns were analyzed from different areas of the site to provide local paleoenvironmental data and to define depositional episodes on various parts of the site.

The paleoenvironmental data from the stratigraphic column appears to cover the period of time from approximately 8000 BC to AD 1000. Detailed findings are available in the full site report, but in general, the study reveals that more mesic conditions were present in the lower levels, followed by increased drying or lowered water table in the middle levels and a return of wetter conditions following to modern times. There was a change in the utilization of vegetal resources over the course of the Archaic Period, with increasing use of taxa from shrubs that bear berries, trees that are nut-bearing, and from multi-use edible wild plants. Both the pollen/phytolith and artifact evidence suggest that at times the role of vegetal resources may have revolved around hunting activities but changing vegetation communities affected both the kind of game available at the site and the importance of game in prehistoric diets. The utilization of nuts, berries, and seeds were evident in the feature pollen profiles, but many other elements of the natural environment may have also been exploited which do not leave evidence of their utilization, including a variety of spring tubers and roots or greens. The pollen data from site features shows intensive exploitation of site resources at least from very early spring through summer and well into the fall. The location of this upland site in a transition zone that supported both coastal and upland vegetation made it an attractive site to many prehistoric peoples.

A total of 129.89 grams of water-floated site matrix from 45 column samples and 16 features recovered during Phase II and III investigations was sorted and analyzed for botanical identifications. While 779 wood charcoal fragments were recognized in the samples, five nut shells, 4 plant rinds, and 1 seed were the only other plant remains recovered. All five of the nutshell fragments were from the family Juglandaceae (hickory or walnut), 4 from a Middle Archaic context, and the other from a Late Archaic/Early Woodland feature. Four Cucurbita (cf. pepo) rind fragments were also recovered from the Late Archaic/Early Woodland context. One Smilex (greenbriar/catbriar) seed was recovered from a Late Archaic feature. Oak, pine, ash, hickory, alder, sweetgum, spruce, cedar, juniper, walnut, black tupelo or black gum, plum or cherry, and grape vine were present in the sample. Unfortunately, wood charcoal fragments were consistently very small and a large portion of the sample could not be reliably identified. Thus, making interpretive statements from the present ethnobotanical sample is quite difficult. Due to the paucity of data, no ethnobotanical profile has been prepared for 18AN489.

The two most significant components on the site discovered during the Phase II and III investigations of the late 1980s are probably the PaleoIndian occupation, and the multiple Otter Creek occupations. Until the Higgins site investigations, neither of these had been excavated in Maryland in conclusively intact contexts. The Higgins site can provide important baseline information on these cultures. The Early Archaic subperiod is only lightly represented in the excavated assemblage, but similar occupations are likely to occur elsewhere on the site. While intact Early Archaic remains have been excavated elsewhere in Maryland, they are rare. Bare Island components have been found in many locations in Maryland, but rarely in undisturbed contexts. The buried Late Archaic component at the Higgins site, therefore, is also highly significant, especially since it occurs in a ridgetop setting. The excavated Early Woodland Marcey Creek component was small, but similar intact deposits relating to this subperiod may be present along the eastern periphery of the site, or on the gradual slope leading to the drainage to the east of the rail station access road. Remains of this subperiod are likely to be contained wholly in the plowzone in other areas of the site.

Phase III excavations at the Higgins Site have clearly indicated that extensive intact prehistoric deposits are present, and that these are sufficiently spatially discrete that significant information on specific components can be extracted. In addition, intact vertical stratigraphy was encountered in one area of the site and is likely to exist elsewhere on the ridgetop (in currently unexcavated areas). Following construction of the State Railroad Administration headquarters building (now the Mass Transit Administration) and landscaping of the project area, approximately 73% of the site remains undisturbed. In addition, due to relatively limited deep disturbances during construction, portions of the project area may retain intact deposits, especially under parking lots on the south and west sides of the State Railroad Administration building. The extent to which the Higgins site extends east of the railroad station access road remains uncertain.

Additional work was carried out at 18AN489 in 1992. In that year a combined Phase IB and Phase II investigation was carried out due to (then) proposed improvements to the parking facilities at the BWI rail station. This work was conducted in order to comply with various state and federal laws regarding the identification and documentation of potentially significant cultural resources that would be impacted by the proposed construction. Relevant legislation includes the National Historic Preservation Act of 1966 as amended, the Federal-Aid Highway Act of 1966 as amended, the National Environmental Policy Act of 1969, and the Maryland Historical Trust Act of 1985 as amended. The work focused primarily on the eastern portion of the Higgins site, on the opposite side of a local access road from the previous archeological studies in the late 1980s.

The 1992 Phase IB fieldwork began with the extension of the grid used in previous studies to the area east of the road. A total of 89 shovel test pits were excavated at 15 m intervals across this portion of the site. Shovel tests were 50 cm in diameter and excavated stratigraphically into sterile soil, to a minimum depth of 50 cm. Most shovel tests were actually excavated considerably deeper, with several extending more than a meter below the surface. All soil was screened through hardware cloth. Shovel test data was recorded on standardized forms, but accurate maintenance of soil layer separation was difficult due to the dryness of soils at the time of excavation.

Approximately 754 historic/modern and 231 prehistoric artifacts were recovered during shovel testing. The historic material at 18AN489 is believed to largely derive from the use of urban manure and privy cleanings as fertilizer. Prehistoric artifacts were recovered from plowzone and subplowzone contexts and in fluvial deposits.

Phase II testing entailed the excavation of eight formal test units. These were each 1 X 1 m or 1 X 2 m in size (four of each) and were placed where prehistoric artifacts had been recovered from subsoil, and in areas where soil profiles suggested previous plowing. No test units were placed on project margins, containing recent, fluvially deposited soils. The humus and plowzone were generally removed as a single layer. Subsoil was removed in 10 cm thick arbitrary levels. At least one wall of each test unit was photographed and profiled. Diagnostic artifacts were pedestalled and point-provenienced. In addition to these methods, opportunistic surface collection was undertaken throughout the 1992 field season.

The 1992 investigation revealed intact prehistoric deposits dating from the Early and Middle Archaic and the Terminal Archaic/Early Woodland transition periods. These data verify that Higgins extends east of the railroad station access road. Generally, artifact densities in the shovel tests were lower east of the road than had been observed to the west. However, seven of the 8 test units excavated in 1992 yielded prehistoric artifacts in the subsoil, strongly suggesting that intact features and additional living floor areas exist elsewhere in the site area.

MARYLAND	Phase I	I and Phase III A	rcheological Database and Inv	ventory
HISTORICAL S	Site Number:	18AN489 Site Name:	Higgins	Prehistoric 🗸
		Other name(s)	T.D. Jones Field S West, Kitten Branch West, 18AN23B	Historic _
	Brief Description:	Paleoindian - Late Woodland mu 20th century scatter	lti-component base camp, lithic workshop; Mid 19th -Early	Unknown [

There appears to be a correlation between Rumford soils and intact deposits at 18AN489. A concentration of Early Archaic bifurcate-based points and fire-cracked rock was found in the southern portion of the site. These deposits appeared to be intact and represented living floors similar to those uncovered during Phase II and III work at Higgins in the 1980s. Based on very limited testing, an artifact concentration in the northern portion of the project area appeared to be generally younger, probably Terminal Archaic to Early Woodland in age. Contrary to expectations for the portion of the site adjacent to the drainage stream(s), these deposits were not particularly deeply-buried, and much of the prehistoric material is contained in the plowzone. Nevertheless, substantial prehistoric remains exist in subplowzone contexts in many areas.

Prehistoric artifacts recovered during the combined Phase IB and Phase II excavations in 1992 at Higgins included 12 projectile points/point fragments, 15 other bifaces, 30 cores/core fragments, 1 scraper, 3 retouched flakes/chunks, 2 unifaces, 743 flakes, 62 chunks, 10 hammerstones, 96 pieces of fire-cracked rock, and 14 prehistoric sherds. Diagnostic artifacts included 6 projectile points (2 LeCroys and 2 possible St. Alban's points, a Brewerton side-notched point, and an Otter Creek point) and 13 of the ceramic sherds (1 Marcey Creek and 12 Accokeek Creek sherds).

Based on the findings of the 1992 study, Phase III data recovery was recommended. No such work has been reported and it appears that the parking improvement plans were altered.

The various excavations that have taken place at the Higgins Site (18AN489) over the years have revealed a history of human occupation spanning approximately 9,000 years and adding valuable information about the earliest phases of Native American life in the Middle Atlantic region. The PaleoIndian remains at 18AN489 are highly significant because they represent the only excavated sample from an undisturbed subsurface context in Maryland's Western Shore region. In addition, few sites containing intact remains from the Archaic Period have been excavated in this area.

The materials from the Higgins Site have the potential to yield important data about the processes of site formation and function, environmental adaptation, and prehistoric subsistence, settlement, and technology in Maryland. Moreover, only a very small portion of the site has been excavated. While the areas of the site that now have buildings or improved surfaces on them were adequately sampled through fieldwork, only a very small (less than 1%) portion of the whole site has been studied.

Intact sites with spatially discrete archeological occupations are rare and afford rare opportunities to study change through time. Sites with the considerable time depth (all the way back to PaleoIndian deposits) are exceedingly rare, particularly in Maryland. The Higgins site is unique and should be preserved in place to the extent possible. Unfortunately, due to the proximity of nearby BWI airport, it seems unlikely that 18AN489 can remain preserved indefinitely.

Additional features and intact deposits exist at this site. A kind of archeological "triage" is needed. Perhaps the best avenue for planning management would be to conduct a geophysical survey across the entire site using methods such as ground-penetrating radar to get a better handle on where intact deposits exist. Such a survey would likely be a cost-effective way of obtaining additional information to help guide planning decisions and ensure that portions of the site containing apparent intact features are preserved.

## **External Reference Codes (Library ID Numbers):**

00000500, 00000691, 00000721, JPPM-NEH